



Product Overview

STK672-640CN-E: Unipolar 2-Phase Stepper Motor Driver

For complete documentation, see the data sheet

Product Description

The STK672-640CN-E is a hybrid IC for use as a unipolar, 2-phase stepper motor driver with PWM current control. It includes a built-in controller and is based on a unipolar constant-current PWM system. The STK672-640CN-E supports application simplification and standardization by providing a built-in 4 phase distribution stepping motor controller. It supports five excitation methods: 2 phase and 1-2 phase excitations, and can provide control of the basic stepping angle of the stepper motor divided into 1/2 step units. It also allows the motor speed to be controlled with only a clock signal. The use of this hybrid IC allows designers to implement systems that provide high motor torques, low vibration levels, low noise, fast response, and high-efficiency drive. In addition the STK672-640CN-E has protective function against over-current, over-heat, motor terminal open.

Features

- Stepping controller built in
- Protective function against over-current, over-heat, and motor terminal open built in
- Current detection resistors built in

Benefits

- Easy to switch between full step and half step with prevention of jumping phase
- Superior in safety drive
- Easy to design and reduce the mounting area

Applications

- Computing & Peripherals
- Industrial

End Products

- Multi-Function Printer
- Document Scanner
- Vending Machine

Part Electrical Specifications

Product	Compliance	Status	Type	V _M Min (V)	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	I _O Max (A)	I _O Peak Max (A)	Step Resolution	Control Type	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	R _{DS(on)} typ (Ω)	Package Type
STK672-640CN-E	Pb-free	Active	Stepper	10	46	4.75	5.25	4	20	1/2	Clock	None	Fully Integrated	No	Open Coil Over-Current Thermal UVLO			SIP-19

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015